

Recombinant Mouse S100 Calcium Binding Protein A6 (Calcyclin)

Cat. No. S100a6-4566M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	S100A6 also called Calcyclin has been purified by HPLC (see Kuznicki et al. (1989) Biochem. J. 263: 951-956).
Source	Mouse
Description	S100A6 is a member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100 proteins are localized either in the cytoplasm or the nucleus of a wide range of cells. S100 proteins are involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. There are at least 13 members in the S100 gene family, which are located as a cluster on chromosome 1q21. S100A6 may function in stimulation of Ca ²⁺ -dependent insulin release, stimulation of prolactin secretion, and exocytosis. Chromosomal rearrangements and altered expression of the S100A6 gene are implicated in melanoma.
Form	The protein was lyophilized from a concentrated solution (1mg/ml) containing no additives.
Purity	Greater than 90% as determined by SDS-PAGE.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Solubility	It is recommended to reconstitute the lyophilized Mouse S100A6 in sterile 18Mμ-cm H ₂ O not less than 100g/ml, which can then be further diluted to other aqueous

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solutions.

Storage

Lyophilized Mouse S100A6 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Mouse S100A6 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

GENE INFORMATION

Gene Name S100a6 S100 calcium binding protein A6 (calcyclin) [Mus musculus]

Official Symbol S100a6

Synonyms

S100a6; S100 calcium binding protein A6 (calcyclin); 2A9; PRA; 5B10; Cacy; CALCYCLIN; protein S100-A6; S100 calcium-binding protein A6prolactin receptor; - associated protein; calcium binding protein A6 (calcyclin)

Gene ID 20200

mRNA Refseq NM_011313

Protein Refseq NP_035443

UniProt ID P14069

Chromosome Location 43.6 cM

Pathway Prostaglandin Synthesis and Regulation

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Function	S100 beta binding; calcium ion binding; protein binding; calcium-dependent protein binding; ion transmembrane transporter activity; metal ion binding; protein homodimerization activity; tropomyosin binding
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PDBrendering based on 1a03.

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